	Application No.	Applicant(s)
Al d'a a fallamabilita	10/691,818	IONEL ET AL.
Notice of Allowability	Examiner	Art Unit
	Tamai I.E. Karl	2834
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	oplication. If not included n will be mailed in due course. THIS
1. X This communication is responsive to 3/21/2006.		
2. 🔀 The allowed claim(s) is/are <u>1-15, 17-20, 22-31, 33-39, 43,</u>	<u>44, 47, 50, 52, 54, 56-70</u> .	
 Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 	-	
2. Certified copies of the priority documents have		
3. Copies of the certified copies of the priority do	• • • • • • • • • • • • • • • • • • • •	
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.	
INFORMAL PATENT APPLICATION (PTO-152) which give		
CORRECTED DRAWINGS (as "replacement sheets") must		
(a) including changes required by the Notice of Draftspers		-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the (Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.
		HAMAT JAAN RAMINAXƏ YAAMIRG
Attachment(s)		
1. Notice of References Cited (PTO-892)	_	Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da	
3. N Information Disclosure Statements (PTO-1449 or PTO/SB/0		
Paper No./Mail Date 2\12\0. 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Statem9. □ Other	ent of Reasons for Allowance
		Tamai I.E. Karl Primary Examiner Art Unit: 2834

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Drawings

The drawings were received on 3/21/2006. These drawings are acceptable. The prior objections to the drawings are withdrawn.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: the prior art does not teach a spoke permanent magnet rotor assembly for a motor having a single body of permanent magnet material continuously surrounding the axis of rotation to define a circumferential portion with a first interface surface and continuously radially extending outwardly relative to the axis of rotation to form a plurality of outwardly extending portions. The rotor assembly including ferromagnetic material positioned adjacent the outwardly extending portions of permanent magnet material and including an outer surface and a second interface surface which is inward of the outer surface and engages the first interface surface, where the first and second interface surfaces are arranged to inhibit the outward radial movement of the ferromagnetic material.

The prior art does not teach a permanent magnet rotor assembly for a motor having a shaft supporting a permanent magnet rotor with a portion of permanent magnet material surrounding portion of the axis of rotation and including a portion that is not magnetized and a plurality of angularly spaced spoke portions that are magnetized, and ferromagnetic material positioned between the angularly spaced spoke portions of the permanent magnet material.

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The prior art does not teach a spoke permanent magnet rotor assembly for a motor having a shaft supporting a spoke permanent magnet rotor with permanent magnet material having a portion continuously surrounding the axis of rotation to define a circumferential portion with a first interface surface and continuously radially extending outwardly relative to the axis of rotation to form a plurality of outwardly extending portions. The rotor assembly including ferromagnetic material positioned adjacent the outwardly extending portions of permanent magnet material and including an outer surface and a second interface surface which is inward of the outer surface and engages the first interface surface, where the first and second interface surfaces are arranged to inhibit the outward radial movement of the ferromagnetic material.

The prior art does not teach a permanent magnet rotor assembly having a single body of permanent magnet material with a circumferential portion that surrounds the axis of rotation and has a substantial portion that is not magnetized, the permanent magnet material forming a plurality of spoke portions extending radially outward from the circumferential portion with each of the spoke portions being tangentially magnetized, where a plurality of poles pieces are disposed between adjacent spoke portions and coupled to the magnetic material such that the magnetic material inhibits outward radial movement of the pole pieces, and with a core disposed within the circumferential portion.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai whose telephone number is (571) 272 - 2036.

The examiner can be normally contacted on Monday through Friday from 8:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Darren Schuberg, can be reached at (571) 272 - 2044. The facsimile number for the Group is (571) 273 - 8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER

Karl I Tamai PRIMARY PATENT EXAMINER May 24, 2006